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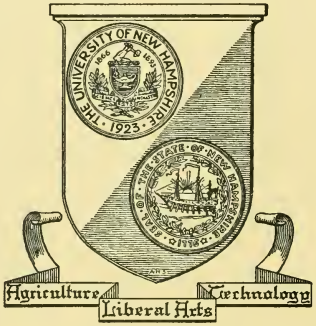

The University
of
New Hampshire

Bulletin 388 July 1951

THE UNIVERSITY OF NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION
Department of Agricultural and Biological Chemistry

Inspection of Commercial Feedingstuffs

Made for the

State Department of Agriculture

By H. A. DAVIS and M. A. BRUCE

The University of New Hampshire
Durham, N. H.

INSPECTION OF COMMERCIAL FEEDINGSTUFFS

Made for the

STATE DEPARTMENT OF AGRICULTURE

The New Hampshire Feedingstuffs Law is administered by the Commissioner of Agriculture. All inquiries concerning the law and the registration of feedingstuffs should be addressed to the Feed Control Supervisor, State House, Concord.

Under the direction of Honorable Perley I. Fitts, Commissioner of Agriculture, Mr. George H. Laramie, Feed Control Supervisor, and Mr. Harold Ayer, Inspector, collected 547 samples of feedingstuffs offered for sale in the state during the year ending June 1951. The 547 samples of feedingstuffs represent 533 brands of 113 manufacturers.

REGISTRATION AND LABELING OF FEEDINGSTUFFS

Registration—The New Hampshire feedingstuffs law, Chapter 226, Revised Laws, as amended by Chapter 64, Laws of 1949, requires the registration of each brand of feedingstuff offered for sale with the Commissioner of Agriculture. Feedingstuffs are defined in the law as follows: "The terms 'concentrated commercial feedingstuff' or 'feedingstuff' as used in this chapter shall include all commercial feedingstuffs used for feeding wild animals and birds kept in captivity, domestic animals and poultry, except hay, straw, whole seed, unmixed meals made directly from the entire grains of wheat, rye, barley, oats, Indian corn, broom corn, buckwheat, and mixed grains the ingredients of which may be readily determined."

The feedingstuff is usually registered by the manufacturer or jobber whether he is located within or outside the state. Feedingstuffs manufactured in other states are frequently handled by several middlemen before they reach the local distributor. Under the provisions of the law, if the manufacturer or jobber fails to make registration, the dealer is responsible. Dealers who purchase feed for resale must assure themselves that the brands they purchase are properly registered and the license fee is paid; otherwise, they must assume that responsibility. The Feed Control Supervisor provides forms to be filed in his office for the registration of feeds. A copy is shown on pages 4 and 5.

New Hampshire

APPLICATION FOR REGISTRATION OF COMMERCIAL FEEDINGSTUFFS

No. .....

Date .....

To the Commissioner of Agriculture, State Dept. of Agriculture, Concord, N. H.:

The undersigned hereby makes application for registration—reregistration—supplemental registration of the following commercial feeding stuffs (for the period ending December 31, 19):

(List products to be reregistered under heading REREGISTRATIONS. List under heading SUPPLEMENTAL those products added during the year.)

Attached are product data sheets which have affixed thereto a label to be used on, or attached to the containers of feeding stuffs as required by paragraph 1 of Chapter 226, Revised Laws of N. H., Stock Foods Law. I hereby certify that the label or labels contain the information required by the law.

(Enclosed is ..... in the amount of $..... covering the registration fee for feeding stuffs. Registration fee is $15.00 for each feeding stuffs.)

Address correspondence to:

Attention ..... Firm Name .....

Street and No. ..... By .....

City and State ..... Title .....

CERTIFICATE OF REGISTRATION

This certifies (that the registration fee has been paid and) that the above-listed products are this day registered under the provision of the New Hampshire Stock Foods law, and the sale is authorized when sold, offered or exposed for sale when labeled and other-wise in compliance with the law, until cancelled for cause (for the period beginning with the actual date of registration and continuing until December 31, unless the registration of any feed or feeds are cancelled).

NEW HAMPSHIRE DEPARTMENT OF AGRICULTURE

.....
Commissioner

Date .....

INSTRUCTIONS

Application for Registration: Submit cover sheet in duplicate. One copy will be returned as your Certificate of Registration.

Product Data Sheet: One or more (8½" x 11") sheets, to which is affixed a label, or if the label has not been printed, proposed copy or printer's proof may be affixed, for each product to be registered, must accompany the application. Number the attached data sheet pages and insert the page number in parentheses on the cover sheet immediately after the name of the feed.

Brands: List these on the application cover sheets under the headings and in the order "Reregistrations" and "New Registrations." (Reregistrations are renewals from the previous year. New Registrations are brands not registered the previous year.)

Reregistrations: (Renewals of registrations) require that all cover sheets be renewed. It is not necessary to renew Product Data Sheets except with respect to information which is different from that furnished when the feeds were registered or last reregistered.

Labeling: All labeling must be in accordance with New Hampshire Stock Foods law, and all information on cover sheets and data sheets must comply with the above law.

Labeling—The law requires every manufacturer or dealer who shall sell or offer for sale any concentrated commercial feedingstuff to furnish with each package a clearly printed statement certifying:

the number of net pounds in the package,

the name or trademark under which the article is sold,

the name of the manufacturer, shipper, or for whom the product is manufactured,

the place of business,

and a chemical analysis stating:

the minimum percentage only of crude protein,

the minimum percentage only of crude fat,

the maximum percentage only of crude fiber,

and the name of each ingredient contained in the feed.

In order to secure greater uniformity in the labeling of feeds and in the statement of ingredients, the Association of American Feed Control Officials has adopted definitions and standards. The Association has approved 20 official regulations which "should be adopted by State officials insofar as their statutes will permit." There are no conflicts with the New Hampshire feedingstuffs law in these regulations. Manufacturers and dealers are, therefore, expected to conform to the regulations of the Association in all matters not specifically mentioned in the law.

One sentence in the New Hampshire feedingstuff law reads as follows: " . . . . . and shall state in bold type upon the container or tag attached thereto, if a compounded feed, the names of the several ingredients therein contained." To avoid the misinterpretation or deception that may result from the manufacturer's use of indefinite terms in listing the ingredients, the Association of American Feed Control Officials has adopted 227 official definitions of ingredients used in the compounding of feedingstuffs. These definitions are subject to frequent addition and revision. At the present time there are also 47 tentative definitions and three that have been proposed for future discussion. Tentative definitions are those which have received favorable consideration but have not yet been made official. An 142-page booklet containing the above three classes of definitions, 20 official regulations, 12 tentative regulations, 23 resolutions adopted, and other instructive material may be obtained from the Secretary of the Association of American Feed Control Officials, College Park, Maryland. The manufacturer should secure a copy of this booklet and list the ingredients accurately. Carelessness or indifference in listing the ingredients should create sales resistance in the buyer. The purchaser is warranted in concluding that the manufacturer who is inaccurate in specifying the ingredients printed on the tag may be careless in selecting the ingredients he puts into the bag.

THE PURPOSE OF THE FEEDINGSTUFFS LAW

The chief purpose of the feedingstuff law is to protect the consumer against the inferior products which doubtless would soon appear

on the market if the trade were not under state control. The law is primarily a correct-labeling act. It must not be assumed by the purchaser of feedingstuffs that every brand which meets the manufacturer's guarantee is a high-grade feed. The feedingstuff law does not prevent the sale of a low grade feed if it is properly licensed and tagged and is offered for sale in compliance with the law. It would not be in the public interest to legislate against the sale of the lower-grade by-products. They can be fed profitably if bought at a price adjusted to their feeding value. The law does prevent an inferior feed being offered for sale as a high-grade product.

The dealer, in purchasing feed from the manufacturer, and the consumer, in purchasing feed from the dealer, should make the specification that the feed delivered must comply with the New Hampshire feedingstuff law. If the feed is not registered; if the protein, fat, and crude fiber are not guaranteed; and if the ingredients of which the feed is composed are not plainly stated on the bag, or on a tag attached thereto, the purchaser is not protected by the state feedingstuff law. He then has no recourse under the feedingstuff law if the feed which he purchases is of inferior quality. The dealer who offers for sale a feedingstuff which has not been registered and which is not guaranteed in compliance with the law is probably indifferent to his customer's interests in other respects. He does not merit either the confidence or the patronage of the consumer. The purchaser's cooperation in refusing to buy a feed which does not conform to the law in every respect will not only help in the enforcement of the law but will at the same time secure for himself the protection of the law. If the buyer fails to assure himself that the legal requirements have been met, he accepts the feedingstuff at his own risk.

The cost of a feedingstuff inspection includes the drawing and the analysis of the samples, and the publication and mailing of the annual bulletin. The funds from which these costs are paid are accumulated from the license fees which the manufacturer is required to pay annually on each brand of feedingstuff offered for sale within the state. Since manufacturing and distributing costs are finally paid by the consumer, the purchaser of feedingstuffs is interested in the effect of the cost of the inspection on the retail price per ton. A calculation based on the known costs of the inspection and the estimated retail value of the feedingstuffs sold annually, shows that the cost of the inspection is only a fraction of a cent per 100-pound bag.

The terms used in reporting the chemical analysis of a feedingstuff required by the law are briefly defined as follows: PROTEIN is a collective term for a considerable group of compounds, all of which contain nitrogen. Ingredients high in protein are usually more expensive than the other ingredients, making protein the most important nutrient for consideration in determining the commercial value of a feedingstuff. The nutritional value of the proteins varies widely; therefore, a feedingstuff should contain protein from several sources to insure inclusion of all essential types. FAT is separated from the other components of a feedingstuff by extracting the moisture-free sample with anhydrous ether. In such ingredients as the cereals, the

seed-meals, and animal products, the extract is nearly pure fat. A few ingredients such as alfalfa meal contain some ether-soluble material which is not fat. When urea is present, the figure for the percentage of fat found may be high as much as 2/10 per cent, due to the slight solubility of urea in anhydrous ether. When sulphur is present, the percentage of fat found is much too high, since sulphur is readily soluble in anhydrous ether. FIBER is composed of cellulose and related compounds. Since crude fiber has little feeding value, the law requires that the maximum fiber be guaranteed rather than the minimum as in protein and fat.

It is not within the scope of this bulletin to make recommendations regarding the use of commercial feedingstuffs. The Department of Dairy Husbandry and the Department of Poultry Husbandry are continuously studying feeding problems. The following publications of these departments are free to residents of New Hampshire. Address your request to Mail Service, University of New Hampshire, Durham, New Hampshire.

Folder 10	The Use of Home-Grown Grains in Feeding the Dairy Herd.
Ext. Bull. 67	Turkey Production in New Hampshire, 16 pp.
Ext. Cir. 158	Feeding Chickens, 18 pp.
Sta. Bull. 335	Protein Requirements of Chickens at Various Stages of Growth and Development II, 15 pp.
Ext. Cir. 282	Dairy Calves.

While the word feedingstuff does not appear in all the above titles, no publication is included which does not discuss some aspect of the use of feedingstuffs.

Inquiries occasionally are made regarding a method of calculating the protein, fat or fiber content of a home mixed feed. There are tables available, such as those in Morrison's book "Feeds and Feeding," which give the average chemical analysis of feed concentrates, roughages, and silages. It should be pointed out that the chemical analysis of a particular lot of an ingredient may be somewhat above or below the average figure shown in the table. This fact must be taken into consideration in fixing guarantees. The following example shows how the protein content of a feed mixture may be calculated.

Ingredients	pounds used	x per cent protein	= lbs. protein furnished by ingredient
Ground Oats	200	12.0	24
Ground Corn	400	8.0	32
Gluten Feed	300	25.0	75
Wheat Bran	400	15.0	60
Linseed Oil Meal	100	34.0	34
Salt	10	....	....
Total Mix	1410 lbs.	contains	225 lbs. protein

$$\text{The mixture contains } \frac{225}{1410} \times 100 = 15.95\% \text{ protein.}$$

The percentage of fat or fiber may be calculated in a like manner by substituting the fat or fiber figures for those of the protein.

CONFORMITY TO THE GUARANTEES

The chemical analyses were made by the methods of the Association of Official Agricultural Chemists. Of the 547 samples analyzed, 11.9 per cent contained less than the guaranteed amount of protein; 7.6 per cent contained less than the guaranteed amount of fat, and 4.0 per cent contained crude fiber in excess of the guarantee. A comparison of these figures with those of previous years is shown in Table 1.

All the states have feedingstuff laws and publish a report. It is common practice to indicate by different type those brands failing by an arbitrary tolerance to conform to the guarantee. There is no common agreement what this tolerance should be. In this bulletin the analytical figures ½ per cent or more below guarantee in protein, ¼ per cent or more below guarantee in fat, and one per cent or more above guarantee in crude fiber are printed in bold-face type and underlined.

TABLE I. PERCENTAGE OF SAMPLES ANALYZED IN YEARS 1926-1951 NOT CONFORMING TO GUARANTEES

Year	Per cent below guarantee in Protein		Per cent below guarantee in Fat		Per cent high in Crude Fiber
	Less than 0.5 per cent	0.5 per cent or more	Less than 0.25 per cent	0.25 per cent or more	
1926	8.0	16.0	4.0	10.0	6.0
1927	8.3	16.4	5.8	13.6	5.9
1928	9.1	20.7	4.3	9.3	7.9
1929	9.5	20.2	2.8	9.3	6.5
1930	4.8	13.1	4.0	8.0	3.9
1931	1.8	7.2	5.9	9.7	5.3
1932	1.8	1.4	5.0	8.1	2.8
1933	1.3	3.6	7.5	9.8	3.6
1934	3.0	3.4	3.9	7.1	9.8
1935	2.4	3.0	4.2	8.5	9.9
1936	2.9	5.2	5.5	8.3	12.2
1937	2.8	4.2	3.0	6.0	11.0
1938	2.9	8.1	9.8	10.8	11.5
1939	1.9	3.3	6.8	9.3	8.7
1940	2.9	4.0	6.2	6.7	7.5
1941	1.1	2.6	4.7	6.7	5.6
1942	2.6	3.5	3.7	4.5	7.4
1943	3.7	2.7	7.7	8.6	7.4
1944	8.2	9.0	10.7	19.7	6.9
1945	2.1	6.1	2.9	7.5	7.1
1946	8.6	17.5	2.3	8.9	14.6
1947	4.1	10.2	1.7	4.0	24.7
1948	3.6	3.8	2.3	3.5	13.6
1949	3.5	5.8	2.7	2.8	7.2
1950	4.9	7.3	4.9	5.1	3.2
1951	4.4	7.5	2.7	4.9	4.0

REQUEST BY INDIVIDUALS FOR THE ANALYSIS OF FEEDINGSTUFFS

The feedingstuff law requires the Agricultural Experiment Station to analyze only samples of registered feedingstuffs drawn under the direction of the Feed Control Supervisor. It does, each year, however, analyze a considerable number of samples drawn by individuals representing stock purchased by them for their own use. Frequently, the reason for requesting an analysis is that the feed is suspected of causing sickness or death of livestock or poultry. While in very rare instances the feed may have caused the trouble, disease is usually found to be the cause. Often feeders, suspecting the feed, lose valuable time in the treatment of the disease by sending a sample of the feed for analysis and waiting for the report. Losses could have been reduced had a veterinarian or poultry specialist been consulted immediately and proper treatment given promptly. The most conclusive method of determining whether or not the feed is the cause of the trouble is a biological test. Such a test can be conducted on the premises of the feeder. If the feed is suspected, confine in sanitary pens two lots of healthy chicks. Give to one lot the suspected feed and to the other lot a feed known to be good. Should the chicks receiving the suspected feed become ill and the others remain healthy, there is evidence that the feed is the cause. Under such circumstances, notify the Feed Control Supervisor and an official sample will be drawn. The official sample will be analyzed to determine if the manufacturer is responsible.

The most common reason the purchaser has for asking to have the sample analyzed is to satisfy himself whether or not the feed meets its guarantee, and if it does not, to obtain evidence upon which to base a claim for shortage. The Station can assume no responsibility for the drawing of an unofficial sample but can attest only the accuracy of the analysis of the sample as submitted. It is practically impossible to secure a representative sample of a feedingstuff composed of several ingredients varying widely in composition without the aid of a sampling tube for drawing the sample and proper equipment for mixing it. A feed may contain as one of its ingredients gluten meal averaging 40 per cent protein, and as another ingredient oat mill feed averaging 5 per cent protein. These materials are so different in physical condition that the shaking in transit tends to separate them even though they may have been perfectly mixed by the manufacturer before bagging. It is apparent that an accurate sample of a shipment of a feed can only be had by drawing a core from several bags. Since a representative sample is as essential as an accurate analysis in judging the value of a shipment of feed, it is evident that a satisfactory adjustment can seldom be effected on the basis of an unofficial sample.

Notwithstanding the objections which may be raised to the analysis of samples taken without proper sampling equipment, the Station is disposed to continue this work as long as there is evidence that it constitutes a useful service. The samples so submitted should be drawn from at least ten bags in a manner which will insure that the small lot sent for analysis is as accurately representative as possible

of the large lot from which it is taken. Because of the cost of laboratory work and materials, an analysis is not usually warranted on a sample drawn from less than a one-ton lot of feed.

A one-pound sample is sufficient for the analysis. It should be sent in a glass jar or tin box to prevent loss of fine particles and a change in the moisture content. In order that the department may have a record of the sample analyzed, and may know whether or not the manufacturer and the dealer are complying with the requirements of the law, the following information should be submitted concerning each sample.

Brand .....

Manufacturer .....

Address .....

Guarantee:

Protein .....

Fat .....

Crude Fiber .....

Ingredients .....

.....

.....

Dealer .....

Address .....

Number of bags in lot .....

Number of bags sampled .....

Price per 100 pounds .....

Your name .....

Your address .....

Your reason for requesting analysis .....

.....

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff: Protein Guaranteed*	Protein Found	Fat Guaranteed*	Fat Found	Crude Fiber Guaranteed*	Crude Fiber Found
Acme-Evans Co., Inc. Indianapolis, Indiana							
Acme Red Dog	Colebrook	14.00	14.89	3.00	2.59	4.00	1.66
Acme Wheat Standard Middlings with Screenings	Milford	14.00	14.23	3.00	4.27	9.50	7.41
Albers Milling Co. Seattle, Washington							
Albers Calf Manna	Derry	25.00	26.48	4.00	4.67	5.50	4.88
E. T. Allen Co. Atlanta, Georgia							
Empire 41% Protein Cottonseed Meal Prime Quality	Keene	41.00	41.33	4.00	6.52	13.00	10.94
Allied Mills, Inc. Chicago, Illinois							
June Pasture	Keene	10.00	12.25	0.50	0.86	26.00	21.41
Sugarine 20% Dairy Feed	Keene	20.00	18.63	3.00	3.79	15.00	7.62
Sugarine Special 16% Dairy Feed	Keene	16.00	17.82	3.00	3.86	12.00	12.17
Wayne All Mash Egg	Keene	15.00	18.26	2.50	4.67	8.00	7.88
Wayne Breeder Mash	Keene	20.00	20.01	3.00	3.93	8.00	6.55
Wayne Calf Starter	Keene	16.00	16.11	3.00	3.66	11.00	6.38
Wayne Chick Starter	Keene	20.00	20.09	3.00	4.38	5.50	5.25
Wayne 20% Dairy Ration	Keene	20.00	20.18	4.00	4.15	10.00	6.71
Wayne Egg Mash	Keene	20.00	20.62	3.00	3.97	8.00	7.15
Wayne Feeds Mash Layer	Keene	20.00	20.57	3.00	3.41	8.00	6.78
Wayne Growing Mash	Keene	18.00	18.70	2.50	4.01	8.00	6.58
Wayne Horse Feed	Keene	9.00	9.28	2.50	3.10	12.00	5.29
Wayne 26% Mash Supplement	Keene	26.00	26.49	2.50	3.61	10.00	7.64
Wayne Pork Maker	Keene	14.00	15.10	3.00	4.60	8.00	6.59
Wayne Poultry Fitting Ration	Keene	11.00	11.52	2.50	2.90	9.00	8.48
Wayne Rabbitt Ration	Keene	17.00	17.77	3.00	3.93	15.00	12.66
Wayne Sulfaquinoxaline Mixture in Wayne All Mash Grower	Keene	15.00	15.28	2.50	4.46	7.00	6.83
Wayne Sulfaquinoxaline Mixture in Wayne Broiler Feed	Keene	20.00	21.49	3.50	4.08	5.00	4.65
Wayne Sulfaquinoxaline Mixture in Wayne Chick Starter	Keene	20.00	20.10	3.00	4.17	5.50	5.35
Wayne Turkey Growing Mash	Keene	20.00	20.05	2.50	4.02	8.00	7.37
Wayne Turkey Starter	Keene	28.00	28.57	3.00	4.72	8.00	6.42
Almonte Flour Mills, Ltd. Almonte, Canada							
Bran	Suncook	15.00	16.02	3.50	5.19	11.50	9.91
American Maize Products Roby, Indiana							
Cream of Corn Gluten Feed	Manchester	23.00	24.47	2.00	2.67	9.50	7.06
Archer-Daniels Midland Co. Minneapolis, Minnesota							
Archer Quality 32% Protein Expeller Linseed Oil Meal	Lancaster	32.00	33.84	3.50	4.24	10.00	9.06
Archer Quality 34% Protein Linseed Oil Meal	Lancaster	34.00	34.24	3.50	4.22	9.00	8.52

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
The Arlington Dehydrating Co. Arlington, Nebraska							
Arlington Dehydrated Alfalfa 17% Meal	Manchester	17.00	16.60	1.50	2.18	27.00	28.55
Ashcraft-Wilkinson Co. Atlanta, Georgia							
Cow-Eta Brand 41% Protein Cottonseed Meal	Laconia	41.00	41.46	4.00	6.10	13.00	11.59
E. W. Bailey & Co. Montpelier, Vermont							
Bailey's Pennant Brand All Purpose Mash	Concord	18.00	18.56	3.00	3.69	7.00	6.42
Bailey's Pennant Brand Breeder Mash	Concord	20.00	20.88	3.75	3.87	7.50	6.92
Bailey's Pennant Brand Calf Ration	Colebrook	15.00	16.37	3.00	3.68	8.50	6.62
Bailey's Pennant Brand Chick Starter	Concord	20.00	21.36	3.75	4.18	7.00	6.99
Bailey's Pennant Brand Chick Starter with Sulfaquinoxaline	Concord	20.00	20.88	3.75	4.29	7.00	6.71
Bailey's Pennant Brand Complete Breeder (Pellets)	N. Haverhill	16.00	17.60	3.50	4.32	7.50	7.03
Bailey's Pennant Brand Complete Egg Mash	Concord	16.00	15.65	3.75	3.48	7.50	6.56
Bailey's Pennant Brand 16% Dairy Ration	Colebrook	16.00	17.77	3.25	4.86	10.00	8.88
Bailey's Pennant Brand 18% Dairy Ration	Concord	18.00	19.83	3.50	4.46	8.00	7.24
Bailey's Pennant Brand 20% Dairy Ration	Colebrook	20.00	20.14	3.50	4.95	8.00	7.72
Bailey's Pennant Brand 20% Dairy Ration (Fine)	Colebrook	20.00	20.22	3.50	5.30	8.00	7.73
Bailey's Pennant Brand Favorite Dairy Ration	Colebrook	20.00	20.18	3.25	5.36	8.00	7.71
Bailey's Pennant Brand Fitting Ration	Colebrook	14.00	15.24	3.50	3.99	11.00	8.35
Bailey's Pennant Brand Fitting Ration (Coarse)	Colebrook	14.00	14.27	3.50	4.47	11.00	9.35
Bailey's Pennant Brand Freshening Ration	Concord	10.00	11.86	1.50	3.74	15.00	10.40
Bailey's Pennant Brand Growing Mash	Concord	18.00	16.87	3.75	3.76	7.50	7.10
Bailey's Pennant Brand Horse Feed	N. Haverhill	10.50	11.81	3.00	3.72	9.00	7.30
Bailey's Pennant Brand Laying Mash	N. Haverhill	20.00	20.18	3.50	4.17	7.50	7.75
Bailey's Pennant Brand Peerless 20 Dairy	Colebrook	20.00	21.40	3.00	4.57	10.00	8.92
Bailey's Pennant Brand Broiler Ration	Concord	20.00	20.18	3.50	4.42	4.00	3.58
Bailey's Pennant Brand Pig Feed	N. Haverhill	17.00	17.04	3.00	4.25	7.50	5.76
Bailey's Pennant Brand 32% Supplement	Colebrook	32.00	33.75	3.50	4.83	8.00	6.91
Bailey's Pennant Brand 16% Test Ration	Colebrook	16.00	16.24	3.25	2.86	9.00	6.52
Bailey's Pennant Brand Yankee 16 Dairy	Colebrook	16.00	16.37	3.00	4.48	15.00	9.96

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
E. W. Bailey & Co. (continued)							
Bailey's Pennant Brand Yankee 20 Dairy	Colebrook	20.00	19.82	3.00	4.46	15.00	12.60
The Beacon Milling Co., Inc. Cayuga, New York							
Auburn "16"	N. Weare	16.00	16.86	3.00	3.98	10.00	7.76
Beacon "16"	N. Weare	16.00	17.04	3.50	4.41	9.00	7.36
Beacon Breeder's Mash	N. Weare	22.00	23.16	3.50	4.70	6.50	6.04
Beacon Broiler Feed	Dover	24.00	24.64	4.00	4.23	4.50	4.49
Beacon C-C Pellets	Goffstown	15.00	18.21	4.50	10.46	5.00	4.14
Beacon Calf Starter	N. Weare	19.00	19.83	3.50	4.26	7.00	5.81
Beacon Complete Starter	N. Weare	25.00	**22.59**	3.50	4.15	4.50	3.34
Beacon Dairy Fitting	N. Weare	14.00	**13.40**	3.50	3.88	9.00	8.25
Beacon "22" Egg Mash	N. Weare	22.00	23.07	3.50	4.24	6.50	5.83
Beacon Fleshing Pellets	N. Weare	20.00	20.18	3.50	4.07	6.00	5.62
Beacon Horse Feed	N. Weare	10.00	11.82	2.50	3.42	9.00	6.95
Beacon Poultry Fitting	N. Weare	12.00	12.60	3.00	3.08	7.50	5.80
Beacon Sweet "20"	N. Weare	20.00	21.53	3.00	3.68	9.00	6.70
Beacon Test Cow Ration	N. Weare	18.00	19.22	4.00	4.39	9.00	7.56
Beacon Turkey and Game Bird Grower	N. Weare	24.00	24.70	3.50	4.15	6.00	4.41
Bremco Mills, Inc. New Bremen, Ohio							
Med-O-Green Alfalfa Meal	Suncook	17.00	**16.47**	1.50	2.25	27.00	26.82
Brown Linseed Corp. Port Richmond, Staten Island, New York							
Briarcliff Farms Brand 32% O. P. Linseed Meal Prime Quality	Exeter	32.00	34.45	4.50	4.81	10.00	8.95
Cargill Inc. Minneapolis, Minn.							
Cargill, Inc. 44% Protein Solvent Extracted Soybean Oil Meal	Potter Place	44.00	47.28	0.50	0.85	7.00	5.30
Car-O-Green Inc. Kansas City, Mo.							
Car-O-Green 17% Dehydrated Alfalfa Meal	Keene	17.00	18.03	1.50	2.32	27.00	25.92
The A. B. Caple Co. Toledo, Ohio							
Alfalfa Meal	Keene	13.00	14.93	1.00	1.44	33.00	30.51
Central Soya Co., Inc. Fort Wayne, Indiana							
Central 41% Protein Expeller Soy Bean Oil Meal	Colebrook	41.00	45.44	3.50	3.56	7.00	5.99
Clinton Food's Inc. Clinton, Iowa							
Clinton Corn Gluten Feed	N. Haverhill	23.00	26.44	2.00	2.31	8.50	7.12
Clinton Corn Gluten Meal	Suncook	41.00	**39.82**	1.00	1.73	6.00	4.18

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff: Protein Guaranteed*	Protein Found	Fat Guaranteed*	Fat Found	Crude Fiber Guaranteed*	Crude Fiber Found
Coatsworth & Cooper Ltd. 67 Yonge St. Toronto, Canada							
C and C Wheat Bran	Concord	15.00	16.42	3.50	5.58	11.50	9.64
Commander-Larabee Milling Co. Minneapolis, Minn.							
Sunfed Wheat Standard Middlings With Ground Screenings	Greenfield	15.00	17.51	4.00	5.21	9.50	7.02
Connecticut Dried Grains Colchester, Conn.							
Dried Brewers Grain	Greenfield	25.00	24.21	7.00	6.80	15.00	14.11
Consolidated Rendering Co. Boston, Mass.							
Corenco Feeding Bone Meal	Milford	10.00	11.51	....	....	....	....
Corenco Meat and Bone Scrap	Keene	46.00	45.30	6.00	9.26	....	....
Corenco 45% Meat and Bone Scrap	Manchester	45.00	43.34	6.00	10.99	....	....
Corenco 46% Meat and Bone Scrap	Manchester	46.00	47.76	6.00	8.69	....	....
Corenco 46% Meat and Bone Scrap	Potter Place	46.00	44.30	6.00	8.28	....	....
Corenco 46% Meat and Bone Scrap	Manchester	46.00	47.41	6.00	8.86	....	....
Corenco 46% Meat and Bone Scrap	Manchester	46.00	46.62	6.00	8.67	....	....
Corenco 47% Meat and Bone Scrap	Keene	47.00	47.58	6.00	9.07	....	....
Corenco 47% Meat and Bone Scrap	Manchester	47.00	47.32	6.00	8.97	....	....
Corenco 47% Meat and Bone Scrap	Keene	47.00	49.65	6.00	9.70	....	....
Corenco 47% Meat and Bone Scrap	Milford	47.00	45.12	6.00	8.48	....	....
Corenco 47% Meat and Bone Scrap	Lancaster	47.00	46.27	6.00	9.01	....	....
Continental Distilling Corp. Philadelphia, Penn.							
25% Corn Distillers Dried Grains	Greenfield	25.00	23.21	8.00	9.87	15.00	15.80
Copeland Flour Mills Midland, Canada							
Dandy Wheat Bran	Hillsborough	15.00	14.67	3.50	4.67	11.50	6.10
Corn Products Refinery Co. New York, New York							
Buffalo Corn Gluten Feed	Hillsborough	23.00	24.38	1.00	1.44	10.00	8.72
Buffalo Corn Gluten Feed Sweetened	Potter Place	18.00	19.39	0.75	1.41	9.00	8.36
Charles M. Cox Co. Boston, Mass.							
Provender	Charlestown	9.00	10.07	3.00	3.43	8.00	4.49
Wirthmore Breeder Mash	Charlestown	20.00	21.27	3.00	3.50	7.00	5.93
Wirthmore Calving Ration	Colebrook	14.00	14.19	4.00	4.01	11.00	9.05
Wirthmore Challenger 16 Dairy Ration	Hillsborough	16.00	17.16	3.00	3.13	10.00	7.92
Wirthmore Challenger 20 Dairy Ration	Hillsborough	20.00	20.70	3.00	3.10	9.00	7.48
Wirthmore Complete Breeder Ration	Walpole	15.00	15.62	3.00	3.82	6.00	4.87
Wirthmore Complete Egg Ration	Meredith	15.00	15.85	3.00	3.88	6.00	5.01
Wirthmore Complete Growing Ration	Walpole	14.50	14.71	3.00	3.86	6.00	4.94
Wirthmore 16 Dairy Ration	Lancaster	16.00	17.34	3.50	4.06	9.00	6.79

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff: Protein Guaranteed*	Protein Found	Fat Guaranteed*	Fat Found	Crude Fiber Guaranteed*	Crude Fiber Found
Charles M. Cox Co. (Continued)							
Wirthmore 20 Dairy Ration	Walpole	20.00	20.36	3.50	3.90	8.00	7.05
Wirthmore Dog Food	Lancaster	25.00	25.39	7.00	6.38	5.00	3.32
Wirthmore Fattening Pellets	Potter Place	17.50	17.82	3.50	3.76	6.00	4.99
Wirthmore 14 Fitting Ration	Meredith	14.00	14.78	4.00	4.01	9.00	7.73
Wirthmore Fodder Greens	Berlin	9.00	10.33	2.00	2.38	18.00	15.63
Wirthmore Growing Mash	Meredith	18.00	18.09	3.00	4.10	7.00	5.34
Wirthmore Horse Feed	Walpole	10.00	11.28	3.25	3.77	9.00	7.50
Wirthmore Laying Mash Pellets	Charlestown	20.00	20.31	3.00	3.70	7.00	5.89
Wirthmore Pig and Hog Feed	Walpole	17.00	17.99	4.00	3.86	8.00	6.14
Wirthmore Poultry Fitting for Turkeys and Chickens	Hillsborough	12.00	12.34	3.00	3.28	10.00	6.12
Wirthmore Producer 16 Dairy Ration	Potter Place	16.00	18.17	3.00	4.43	10.00	8.61
Wirthmore Producer 20 Dairy	Berlin	20.00	19.35	3.00	4.18	9.00	8.41
Wirthmore Producer 14 Fitting Ration	Hillsborough	14.00	14.62	3.50	4.15	10.00	7.41
Wirthmore Rabbit Pellets	Meredith	15.00	16.94	4.00	4.10	12.00	9.88
Wirthmore 16 Record Ration	Walpole	16.00	16.94	3.50	4.32	9.00	6.95
Wirthmore 20 Record Ration	Conway	20.00	20.18	3.50	4.23	9.00	7.43
Wirthmore Starter and Broiler Ration	Meredith	20.00	20.62	3.00	3.49	6.50	5.23
Wirthmore Stock Feed	Charlestown	10.00	11.12	3.00	3.17	11.00	9.80
Wirthmore Sulfaquinoxaline Mixture Mixed with Wirthmore Starter and Broiler Ration	Meredith	20.00	20.27	3.00	3.87	6.50	5.25
Wirthmore Sulfaquinoxaline Mixture in Wirthmore HI-ENER-G Starter and Broiler Ration	Meredith	20.00	21.67	3.00	3.47	4.50	3.69
Wirthmore Turkey Fattening Ration	Meredith	16.00	18.04	3.00	3.90	7.00	5.09
Wirthmore Turkey Growing Ration	Meredith	20.00	22.90	3.00	3.65	7.50	5.50
Wirthmore Turkey Growing Ration with Nitrothiazole	Meredith	20.00	20.66	3.00	3.80	7.50	5.32
Wirthmore Turkey Starting Ration	Meredith	26.00	28.10	3.00	3.07	6.00	4.64
Wirthmore Twin-Mix Calf Ration	Colebrook	17.00	18.56	4.00	3.91	8.00	6.28
Dailey Mills, Inc. Olean, New York							
Double Diamond Broiler	Derry	20.00	22.02	5.00	4.69	6.00	4.92
Double Diamond Complete Egg Producer (All Mash)	Derry	15.00	18.08	4.00	5.58	8.00	6.97
Double Diamond Egg Maker 20%	Derry	20.00	22.29	4.50	5.01	7.50	7.12
Double Diamond HICal Body Builder	Derry	14.00	12.26	4.00	3.72	7.00	6.34
Double Diamond Hi Cal Hi-Hatch	Derry	22.00	23.03	5.00	4.64	7.00	5.52
Double Diamond Hi Cal 16% Test Ration	Lebanon	16.00	16.29	4.00	4.04	9.00	7.57
Double Diamond Layer	Lebanon	20.00	22.42	4.50	5.41	7.00	4.45
Double Diamond 16% Milk Producer	Derry	16.00	18.65	3.50	4.27	10.00	7.47
Double Diamond 20% Milk Producer	Derry	20.00	20.49	3.25	3.78	10.00	8.04
Double Diamond Pig and Hog	Derry	13.00	13.66	4.00	4.92	8.00	6.51
Sulfaquinoxaline Mixed with Double Diamond Starter and Broiler	Derry	20.00	19.70	4.00	5.47	2.50	3.56

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Dawe's Manufacturing Co. Chicago, Illinois							
Dawe's Vitamelk Base	Exeter	34.00	34.76	3.00	2.35	6.00	5.99
Dawson County Feed Products Co. Lexington, Nebraska							
Square Fare (DE-HY) 17% Dehydrated Alfalfa Meal	Manchester	17.00	18.21	1.50	2.35	27.00	24.52
Deep Sea Fish Products, Inc. South Portland, Maine							
Deep Sea Fish Meal	Greenfield	60.00	69.02	5.00	7.51	2.00	0.13
Deep Sea Fish Meal	Suncook	60.00	61.51	5.00	8.27	2.00	0.10
Deuart Milling Co., Ltd. Peterborough, Ontario							
Wheat Bran	N. Haverhill	15.00	13.28	3.50	4.29	11.50	8.53
Dietrich & Gambrill, Inc. Frederick, Maryland							
D & G Frederick 20% Dairy	Greenland	20.00	18.71	3.50	3.22	13.00	10.74
D & G Pen Mar 20% Dairy	Greenland	20.00	21.27	3.50	3.61	10.00	7.53
D & G Pig and Hog Meal	Greenland	18.00	19.57	3.50	3.52	8.00	5.60
Pen-Mar Horse and Stock Feed	Greenland	10.00	10.03	3.00	3.33	12.00	6.18
Eastern States Farmer's Exchange West Springfield, Mass.							
Eastern States All-Mash Breeder	Manchester	15.50	16.07	3.00	3.89	5.50	3.94
Eastern States All-Mash Developer	Manchester	15.50	19.57	3.00	3.86	5.00	3.75
Eastern States All-Mash Developer W. N.	Manchester	15.50	15.85	3.00	3.72	5.00	3.45
Eastern States All-Mash Producer	Manchester	15.50	16.68	3.00	3.68	5.00	3.70
Eastern States Breeder Concentrate (Pellets)	Manchester	20.00	21.32	3.50	5.32	6.00	3.26
Eastern States Breeder Mash	Manchester	22.00	23.33	3.00	4.71	5.00	3.40
Eastern States Calf Starter	Woodsville	20.00	21.41	3.50	4.13	6.00	5.13
Eastern States Calving Ration	Woodsville	11.50	12.43	2.00	3.13	16.00	10.87
Eastern States Dog Feed	Woodsville	24.00	24.39	5.50	6.89	4.00	2.43
Eastern States Fitting Ration	Manchester	14.00	15.20	3.00	4.46	9.00	7.22
Eastern States Fulpail	Woodsville	20.00	20.22	3.50	4.45	9.00	7.12
Eastern States Horse Feed	Manchester	10.50	11.63	3.00	3.76	8.00	5.66
Eastern States Milkmore	Woodsville	16.00	17.60	3.50	4.38	8.50	7.10
Eastern States Milksaver	Manchester	30.00	31.04	1.00	1.01	2.00	0.74
Eastern States Pacemaker—WN Mixture in Pacemaker WN	Manchester	20.00	20.70	3.00	3.91	4.00	2.93
Eastern States Pig Starter and Breeder	Woodsville	20.00	22.11	2.50	3.75	7.00	6.58
Eastern States Pork Builder	Concord	15.00	15.33	3.00	4.56	5.50	4.81
Eastern States Sweepstakes	Woodsville	16.00	17.34	3.50	4.30	8.00	6.29
Eastern States Turkey Grower (Pellets)	Manchester	20.00	21.89	2.50	3.70	4.50	3.86
Elm City Grain Co. Keene, New Hampshire							
Elm Tree All Mash Breeder	Keene	16.00	16.94	3.50	4.72	8.00	6.95
Elm Tree All Mash Laying	Keene	16.00	16.68	3.50	4.08	8.00	6.68
Elm Tree Chick Starter	Keene	20.00	20.93	4.00	5.55	8.00	5.40
Elm Tree Dairy Feed	Keene	18.00	20.01	3.50	3.82	11.00	8.37

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Elm City Grain Co. (Continued)							
Elm Tree 14% Fitting Ration	Keene	14.00	15.07	3.50	3.68	11.00	7.42
Elm Tree Laying Mash	Keene	19.00	21.05	3.50	4.26	9.00	7.33
Elm Tree Pig and Hog Feed	Keene	14.00	15.41	4.00	4.75	10.00	5.82
Elm Tree Poultry Fitting	Keene	10.00	9.76	3.00	3.58	9.00	6.53
Elm Tree Provender	Keene	10.00	9.60	3.50	3.90	8.00	6.22
Elmore Milling Co. **Oneonta, New York**							
Elmore Breeder Mash	Concord	20.00	22.38	3.50	4.52	8.00	6.17
Elmore Complete Layer and Breeder	Concord	15.00	20.71	3.50	4.38	8.00	5.74
Elmore Sulfaquinoxaline in Super Broiler Ration	Concord	20.00	21.10	4.00	4.99	4.50	4.34
Elmore Super Broiler Ration	Concord	20.00	20.01	4.00	5.16	4.50	5.31
Elmore Test Ration	Concord	18.00	17.73	4.00	4.01	9.00	8.91
Elmore Turkey Breeders Mash	Concord	20.00	22.55	4.00	4.30	8.00	6.14
Elmore Turkey Fitting Ration	Concord	12.00	16.99	3.00	3.01	10.00	6.89
Elmore Turkey Growing Mash	Concord	20.00	21.93	4.00	5.35	8.00	6.71
J. W. Eshelman & Sons **Lancaster, Pa.**							
Eshelman Pennsy 16% Dairy Feed	Keene	16.00	18.95	3.00	3.60	11.00	9.38
Eshelman Red Rose Breeder Mash	Keene	20.00	24.17	3.50	3.70	7.00	6.24
Eshelman Red Rose Calf Grower	Keene	14.00	18.54	3.00	3.42	8.00	6.60
Eshelman Red Rose Chick Starter	Keene	20.00	20.70	3.50	4.11	6.50	5.48
Eshelman Red Rose 16 Dairy Feed	Keene	16.00	17.47	3.50	4.61	9.50	8.02
Eshelman Red Rose Fitting Ration	Keene	12.00	12.91	3.50	4.12	7.00	6.33
Eshelman Red Rose 40% Hog Supplement	Keene	40.00	41.11	3.50	4.02	10.00	5.45
Eshelman Red Rose Horse Feed	Keene	9.00	10.24	3.00	3.38	10.00	5.42
Eshelman Red Rose Laying Mash	Keene	20.00	22.86	3.50	3.33	8.00	6.17
Eshelman Red Rose Rabbit Feed Pelleted	Keene	14.00	13.40	3.00	3.68	12.00	10.22
Eshelman S. O. S.	Keene	11.00	11.69	2.00	2.96	15.00	13.16
Farmers Feed Co. **New York City, New York**							
Bull Brand Dried Brewers Grains	Keene	26.00	27.10	6.00	8.07	17.00	14.16
Flambeau Milling Co. **Phillips, Wisconsin**							
Pulverized Mixed Feed Oats	Manchester	11.00	11.90	3.50	3.17	13.75	10.64
Pulverized White Oats	Keene	11.00	11.99	3.50	3.61	12.75	11.55
Forbes Bros.-Central Mills **Topeka, Kansas**							
Coarse or Unground Hominy Feed	Greenfield	10.50	11.42	5.00	7.55	6.00	4.57
Fowler Brothers **Suncook, New Hampshire**							
Sun Valley All Mash Breeder	Suncook	16.00	16.01	3.00	4.24	7.50	5.34
Sun Valley Breeder Mash	Suncook	20.00	20.62	3.00	4.40	7.50	5.50
Sun Valley Chick Starter	Suncook	20.00	22.07	4.00	4.01	7.00	5.45
Sun Valley Dairy Ration	Suncook	16.00	16.11	3.50	3.57	10.00	7.80
Sun Valley Pig and Hog Feed	Suncook	14.00	14.58	3.50	4.21	10.00	7.83

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		anteed* Guar-	Found	anteed* Guar-	Found	anteed* Guar-	Found
Gateway Hay Co. **Cozad, Nebraska**							
13% Sun Cured Alfalfa Meal	Colebrook	13.00	13.40	1.50	1.43	33.00	35.74
General Mills, Inc. **Detroit, Michigan**							
Dried Beet Pulp	Exeter	7.00	8.41	0.30	0.50	22.50	20.32
Farm Service Feed Chick Starter	Exeter	20.00	20.05	4.00	5.27	6.50	6.80
Farm Service Feed 20% Dairy Feed	Exeter	20.00	19.70	3.50	3.36	8.00	7.70
Farm Service Feed Pig and Hog Feed	Exeter	16.00	16.07	4.50	4.78	6.50	7.58
Larro Broiler Feed	Exeter	20.00	23.73	3.50	2.93	5.50	3.66
Larro Calf Builder	Walpole	24.00	24.21	3.50	4.35	6.50	3.92
Larro Chick Builder	Walpole	20.00	21.23	3.50	3.62	7.00	5.27
Larro 32% Dairy Concentrate	Exeter	32.00	33.97	3.00	2.86	11.00	8.52
Larro 20% Dairy Feed	Exeter	20.00	21.72	3.00	3.11	12.00	9.40
Larro Egg Mash	Exeter	20.00	20.80	3.50	3.39	8.00	6.52
Larro Green Pellets for Rabbits	Exeter	15.00	16.38	2.00	3.22	19.00	17.78
Larro Poultry Breeder Mash	Exeter	20.00	21.94	3.50	4.12	8.00	7.21
Larro Sulfaquinoxaline Mixture in Larro Broiler Feed	Exeter	20.00	20.51	3.50	4.08	5.50	3.67
Larro Sow and Pig Builder	Walpole	17.50	18.39	3.50	3.66	8.00	5.63
Larro Turkey Finisher (Pellets)	Exeter	27.00	28.02	3.00	2.88	8.00	5.91
Washburn's Gold Medal Hard Wheat Standard Middlings and Ground Wheat Screenings. Not Exceeding Mill Run	Colebrook	15.00	15.58	4.00	4.79	9.50	8.72
The Glidden Co., Soya Products Division **Chicago 39, Ill.**							
Glidden Soy Bean Oil Meal (Hi-Pro-Soy) Solvent Extracted	Manchester	50.00	50.57	0.50	0.94	3.00	2.61
Gloucester By-Products, Inc. **Gloucester, Mass.**							
Globpro Brand Fish Meal	Milford	55.00	60.42	5.00	10.26	2.00	1.65
Gorton's-Pew Fisheries Co. Ltd. **Gloucester, Massachusetts**							
Gorton's Al-Fish Blend "Junior"	Milford	40.00	40.98	6.00	8.17	8.00	7.80
D. H. Grandin Milling Co. **Jamestown, New York**							
Chautauqua 16 Dairy Feed	Keene	16.00	15.32	3.00	3.37	12.00	11.84
Chautauqua 20 Dairy Feed	Barrington	20.00	23.53	3.00	2.21	12.00	8.28
Grandin's All Mash Layer	Barrington	15.00	15.50	3.00	3.94	6.50	7.01
Grandin's Complete Chick Starter	Barrington	25.00	24.69	3.00	3.02	6.00	4.91
Grandin's 14 Fitting Ration	Keene	14.00	14.32	3.50	4.18	10.00	7.75
Grandin's Laying Mash	Keene	20.00	21.01	3.00	3.79	6.50	6.47
Grandin's 16 Milk Maker	Keene	16.00	16.81	3.50	4.23	10.00	8.23
Grandin's 20 Milk Maker	Keene	20.00	21.05	3.50	4.20	10.00	8.72
Grandin's Poultry and Turkey Fitting Ration	Keene	10.00	10.68	3.00	3.26	11.00	9.10
Grandin's Start to Finish Mash	Barrington	20.00	20.18	3.00	3.70	6.50	6.48
Grandin's 18 Test Ration	Lancaster	18.00	18.04	3.50	4.73	10.00	8.05

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Hales & Hunter Co. Chicago, Illinois							
Pioneer Calf Starter	Lebanon	18.00	18.52	2.50	3.10	8.50	5.74
Pioneer 15 Dairy	Lebanon	15.00	16.15	3.00	4.15	9.00	7.30
Pioneer 18 Dairy	Lebanon	18.00	18.65	3.00	3.40	9.00	7.12
Pioneer Dairy Bull	Lebanon	12.00	13.53	3.00	3.76	12.00	6.13
Pioneer Dairy Sup-Pel	Lebanon	18.00	23.38	3.00	4.03	9.00	6.91
Pioneer Dry and Freshening	Lebanon	12.00	12.61	2.50	3.48	10.00	7.42
Pioneer Horse Feed	Lebanon	9.00	10.51	2.50	3.75	10.00	6.02
Pioneer Pelleted Flaked 15 Dairy	Lebanon	15.00	15.01	3.00	3.67	9.00	6.53
Red Comb Chick Starter	Lebanon	20.00	20.58	3.00	3.07	6.00	4.64
Red Comb Egg Mash	Lebanon	20.00	21.19	3.00	3.50	7.00	6.07
Red Comb Growing Mash	Lebanon	18.00	19.44	3.00	3.53	7.00	6.03
Hood Mills Company Baltimore, Maryland							
Hood's Pulverized Grain	Manchester	11.00	10.76	2.00	2.04	13.00	14.60
Hood's Pulverized Grain	Suncook	11.00	10.68	2.00	2.80	13.00	13.91
H. P. Hood & Sons Boston, Massachusetts							
Hood's Calf Starter	Henniker	26.00	26.92	4.00	3.90	4.00	3.45
Powdered Skim Milk	Laconia	32.00	34.68	0.50	0.60	....	....
E. C. & W. L. Hopkins Greenfield, N. H.							
Granite State Breeder Mash	Greenfield	20.00	21.67	3.00	4.64	7.50	5.68
Granite State Broiler Mash	Hillsborough	20.00	20.27	3.50	3.88	4.50	4.18
Granite State Complete Mash	Greenfield	15.00	15.93	3.00	4.33	7.00	6.63
Granite State 20% Dairy Feed	Newmarket	20.00	20.88	4.00	4.59	10.00	8.07
Granite State Egg Mash	Greenfield	20.00	21.41	4.00	4.49	7.50	6.08
Granite State Fitting Ration	Newmarket	14.00	15.45	3.00	4.07	8.00	6.65
Granite State Growing Mash	Hillsborough	19.00	20.27	3.00	4.38	7.00	5.80
Granite State Hog Ration	Hillsborough	17.50	18.48	3.00	4.31	7.00	6.90
Granite State Horse Feed	Hillsborough	10.00	11.16	3.00	3.82	8.00	5.16
Granite State Stock Feed	Hillsborough	8.00	7.41	4.00	3.42	10.00	7.91
Page 16% Dairy	Greenfield	16.00	17.60	4.00	5.04	9.00	8.14
Page 20% Dairy	Greenfield	20.00	21.10	3.50	4.57	9.00	7.81
Sulfaquinoxaline Mixture in Granite State Chick Starter	Hillsborough	20.00	23.03	3.00	3.86	6.50	6.26
Independent Manufacturing Co. Philadelphia, Pennsylvania							
Independent's Sterilized Steamed Feeding Bone Meal	Keene	5.00	11.99	....	....	....	....
International Milling Co. Minneapolis, Minnesota							
Blackhawk Wheat Bran	Keene	15.00	16.86	2.50	5.14	12.00	9.79
Blackhawk Wheat Red Dog	Berlin	15.00	17.30	2.00	3.73	4.00	3.44
Blackhawk Wheat Standard Middlings	Keene	15.00	16.81	3.00	5.67	9.50	7.46
Blackhawk Wheat Standard Middlings (With Ground Screenings)	Manchester	15.00	15.80	3.00	5.56	9.50	7.92
Lucky Wheat Bran with Ground Wheat Screenings	Colebrook	14.00	17.60	3.50	4.83	12.00	8.85

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
International Milling Co. (Continued)							
Lucky Wheat Bran with Ground Wheat Screenings, Not Exceeding 8%	Lancaster	14.00	17.95	3.50	5.12	12.00	8.52
Lucky Wheat Red Dog	Lancaster	14.00	16.60	2.50	3.27	4.00	2.94
Target Wheat Red Dog	Lancaster	15.00	17.60	2.00	4.03	4.00	3.99
R. P. Johnson & Son **Potter Place, N. H.**							
Johnson's Chick Starter	Potter Place	16.00	20.05	3.00	4.11	10.00	5.74
Johnson's Complete Laying Mash	Potter Place	15.00	16.60	3.00	3.96	8.00	6.12
Johnson's Dairy Feed	Potter Place	16.00	17.78	3.00	3.25	9.00	7.47
Johnson's Growing Mash	Potter Place	14.00	16.55	3.00	4.02	9.00	6.40
Johnson's Laying Mash	Potter Place	18.00	20.54	4.00	4.12	8.00	6.33
Johnson's Pig and Hog Feed	Potter Place	15.00	17.86	2.00	3.99	7.00	6.36
Kansas Flour Mills Co. **Kansas City, Missouri**							
Wheat Standard Middlings	Manchester	15.00	17.20	3.50	4.06	9.50	7.78
Kasco Mills **Waverly, New York**							
Kasco All Mash Breeder Ration	Rochester	15.00	15.85	3.00	3.74	7.50	4.68
Kasco All Mash Grower Ration	Rochester	15.00	14.54	3.00	3.82	7.00	4.01
Kasco All Mash Layer Ration	Rochester	15.00	16.20	3.00	3.75	7.50	4.38
Kasco Beatsall Milk Grains 16%	Rochester	16.00	16.12	3.50	4.47	10.00	7.23
Kasco Beatsall Milk Grains 20%	Rochester	20.00	19.52	3.50	4.42	10.00	7.72
Kasco Body Builder	Rochester	15.00	16.34	3.00	3.74	7.00	4.36
Kasco Fitting Ration	Rochester	14.00	16.20	3.50	4.04	10.00	7.29
Kasco Horse Feed	Rochester	10.00	10.11	2.50	3.10	10.00	5.16
Kasco Laying and Breeding Mash	Rochester	20.00	21.14	3.00	3.71	7.50	6.04
Kasco Nitrophenide (megasul) Mixture in Kasco Chick Starter	Rochester	20.00	21.85	3.00	3.63	5.50	3.28
Kasco Poultry Flushing Mash	Rochester	17.00	17.55	3.00	2.80	6.00	4.59
Kaw Dehydrating Co. **Topeka, Kansas**							
Kaw Dehydrated Alfalfa Meal	Manchester	17.00	18.30	1.50	2.61	27.00	28.38
Kellogg Company **Omaha, Nebraska**							
Kellogg's Hominy Feed	Hillsborough	9.00	9.54	5.00	6.36	5.00	3.68
Kentucky By-Products Corp. **2928 Garland Avenue** **Louisville, Kentucky**							
Brewer's Dried Grain	N. Haverhill	24.00	22.90	6.00	9.76	18.00	14.63
Keystone Dehydrators **Nazareth, Pennsylvania**							
Keystone Super-Green Dehydrated Alfalfa Meal	Potter Place	17.00	17.56	2.00	2.01	27.00	30.06
Krafts Food Co. **Chicago, Illinois**							
Kraylets (For Livestock and Poultry)	Greenfield	20.00	22.59	4.50	7.52	2.00	1.80

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Main Fish Meal Co. Portland, Maine							
Maine Concentrate	Potter Place	52.00	52.80	12.00	11.15	1.00	0.28
Maritime Milling Co., Inc. Buffalo, New York							
Bull Brand Chick Feed	N. Hampton	10.00	9.28	2.00	2.52	4.00	1.20
Bull Brand Conditioning Mash	N. Hampton	14.00	15.02	3.00	3.41	6.00	2.66
Bull Brand Egg Mash	N. Hampton	20.00	21.93	3.00	3.16	8.00	4.56
Bull Brand Ma-Co High Energy Broiler Ration	Laconia	22.00	23.23	3.00	3.86	3.90	3.17
Bull Brand Maco Hi-Energy Complete Growing Ration	N. Hampton	18.00	19.26	3.00	3.74	5.00	3.50
Bull Brand Maco Hi-Energy Egg Mash	N. Hampton	21.00	24.21	3.00	3.17	5.00	3.53
Bull Brand Hi-Energy Growing Mash	N. Hampton	21.00	22.33	3.00	3.55	5.00	3.51
Bull Brand Maco Nitrophenide Mixture in Bull Brand Maco Broiler Ration 0.025%	N. Hampton	22.00	22.20	3.00	3.92	3.90	3.35
Bull Brand Maco Nitrophenide Mixture in Bull Brand Maco Broiler Ration 0.05%	N. Hampton	22.00	22.37	3.00	3.85	3.90	3.05
Bull Brand Station Fattening Feed	N. Hampton	13.00	16.72	4.00	5.55	7.00	6.99
Bull Brand Maco Sulfaquinoxaline Mixture in Bull Brand Maco Broiler Ration	N. Hampton	22.00	22.03	3.00	3.96	3.90	3.07
Bull Brand Sweetened "16" Dairy Ration	Lisbon	16.00	18.96	4.00	4.90	9.00	8.89
Bull Brand Pasture Supplement	Lisbon	13.00	13.75	3.00	3.60	15.00	12.31
Marmico 16% Protein Dairy Feed with Molasses	Lisbon	16.00	16.81	3.00	3.08	12.00	10.20
Sweetened Bull Brand "20" Dairy Ration	Lisbon	20.00	23.07	4.00	4.24	9.00	8.85
McCabe Grain Co., Ltd. Winnipeg, Manitoba, Canada							
Ground Sweet Clover and Alfalfa Screenings	Manchester	17.00	19.69	1.50	5.13	29.00	12.03
Merrimack Farmers' Exchange Concord, New Hampshire							
Merrimack All Mash	Concord	15.00	15.58	3.50	4.50	7.00	5.74
Merrimack All Mash	Henniker	15.00	16.11	3.50	4.38	7.00	5.69
Merrimack Breeder Mash	Laconia	19.50	20.97	4.00	4.83	7.00	5.95
Merrimack Calf Starter and Growing Ration	Milford	12.00	14.01	3.00	3.40	12.00	7.80
Merrimack Chick Starter	Laconia	20.00	21.14	3.00	4.03	7.00	5.68
Merrimack Complete Layer	Henniker	15.00	16.64	3.50	4.39	7.00	6.22
Merrimack Complete Layer (Pelleted)	Derry	15.00	15.90	3.50	4.29	7.00	6.25
Merrimack 14% Dairy Ration	Milford	14.00	15.58	3.00	3.75	10.00	8.08
Merrimack 16% Dairy Ration	Milford	16.00	18.82	3.50	4.76	9.00	7.67
Merrimack 16% (Fine) Dairy Ration	Milford	16.00	17.21	3.00	3.43	10.00	7.66
Merrimack 20% Dairy Ration	Laconia	20.00	22.20	3.50	4.47	8.50	7.70
Merrimack Fast-Gro Broiler	Henniker	22.00	23.86	4.00	3.30	4.00	3.58

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Merrimack Farmers' Exchange (Continued)							
Merrimack 14% Fitting Ration	Derry	14.00	13.52	3.50	4.20	9.00	6.65
Merrimack 14% Fitting Ration	Concord	14.00	14.89	3.50	4.98	9.00	6.40
Merrimack 14% Fitting Ration	Concord	14.00	16.42	3.50	4.35	9.00	6.63
Merrimack Fodder Ration	Derry	10.00	10.15	1.50	1.90	20.00	19.99
Merrimack Fodder Ration	Benton	10.00	10.68	1.50	1.77	20.00	18.78
Merrimack Growing Mash	Milford	17.00	17.21	3.50	4.15	8.00	6.40
Merrimack Horse Feed	Derry	11.00	11.30	3.50	3.67	10.00	6.81
Merrimack Horse Feed	Benton	11.00	11.91	3.50	3.78	10.00	6.37
Merrimack Laying Mash	Milford	19.00	21.01	3.50	3.99	7.00	5.39
Merrimack Pig Feed	Benton	17.00	18.83	3.00	3.74	7.00	5.52
Merrimack Pig Feed	Concord	17.00	17.82	3.00	3.89	7.00	5.93
Merrimack Provender	Milford	9.00	9.58	3.50	3.75	10.00	4.88
Merrimack Rabbit Pellets	Milford	20.00	22.11	2.25	3.22	12.00	9.82
Merrimack 18% Special Dairy Ration	Henniker	18.00	20.31	3.50	3.69	8.50	6.32
Merrimack 18% Special Dairy Ration	Benton	18.00	19.66	3.50	4.58	8.50	6.59
Merrimack Stock Feed	Laconia	9.00	9.76	2.50	3.80	12.00	10.05
Merrimack Sulfaquinoxaline Mixture inc. in Merrimack Fast-Gro Broiler Ration	Derry	22.00	22.50	4.00	4.16	4.00	3.36
Merrimack Turkey Growing Mash	Derry	20.00	20.88	3.00	3.97	8.00	6.62
Sweetened Oat Feed	Laconia	3.00	3.02	1.00	0.69	32.50	26.74
Missouri Valley Dehydrating Co., Inc. Richmond, Missouri							
Dehydrated Alfalfa Meal	Manchester	17.00	17.16	1.50	2.38	27.00	23.26
Molson's Brewery Montreal, Canada							
Dried Brewers' Grains	Keene	22.00	22.55	7.00	7.01	15.00	16.49
George Q. Moon & Co., Inc. Binghamton, New York							
Bulky Cow Feed	Salem Depot	11.00	14.38	2.00	3.03	16.00	13.14
Moon's Breeder Mash	Salem Depot	20.00	19.15	4.00	5.14	8.00	6.32
Moon's Complete Growing Mash ..	Salem Depot	16.00	16.38	3.50	4.13	7.00	6.22
Moon's Complete Laying Mash	Salem Depot	16.00	16.90	3.50	4.68	7.00	6.17
Moon's Fitting Ration	Salem Depot	13.00	13.53	4.00	4.51	9.00	7.11
Moon's Growing Mash	Salem Depot	18.00	16.93	3.50	3.92	7.00	6.48
Moon's Hog Feed	Salem Depot	13.00	15.32	3.00	4.50	12.00	8.69
Moon's Laying Mash	Salem Depot	20.00	20.05	3.50	4.24	7.00	6.60
Moon's Rabbit Pellets	Salem Depot	15.00	16.51	2.50	4.61	10.00	9.99
Moon's Sulfaquinoxaline Mixture in Moon Complete Starter and Broiler Mash	Salem Depot	17.50	17.69	3.50	3.97	7.00	7.28
Moon Sulfaquinoxaline Mixture in Moon Growing Mash	Salem Depot	18.00	16.96	3.50	3.57	7.00	6.54
Moon Sulfaquinoxaline Mixture in Moon Super Broiler Ration	Salem Depot	20.00	20.95	3.00	4.32	4.50	2.94
Moon's Special A 20% Dairy Ration	Salem Depot	20.00	19.73	3.50	4.52	10.00	8.43
Moon's Super Broiler Ration	Salem Depot	20.00	21.18	3.00	4.42	4.50	2.92
N. E. Complete Laying Mash	Salem Depot	16.00	16.82	3.00	4.24	9.00	7.28
Poultry Fitting Ration	Salem Depot	11.00	13.48	2.50	3.28	11.00	6.60

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
George Q. Moon & Co., Inc. (Continued)							
Special A 16% Dairy Ration	Salem Depot	16.00	19.82	3.50	4.63	10.00	7.28
Special Summer Feed	Salem Depot	16.00	17.64	3.50	3.96	10.00	8.61
U. S. 20% Dairy Ration	Salem Depot	20.00	21.76	3.00	5.01	12.00	10.07
Mount Vernon Milling Co. Mount Vernon, Indiana							
Poco Hominy Feed	N. Haverhill	10.00	10.85	5.50	6.67	6.00	4.15
Mutual Products Co. Minneapolis, Minnesota							
Mutual Dairyade Compound	Greenland	20.00	20.44	4.50	4.74	3.00	2.84
National Alfalfa Dehydrating and Milling Co. Lamar, Colorado							
Alfalfa Meal	Lancaster	13.00	13.62	1.00	1.60	33.00	31.29
17% Protein Dehydrated Alfalfa Meal	Manchester	17.00	19.18	1.50	2.16	27.00	23.80
National Biscuit Co. Toledo, Ohio							
Pure Wheat Bran	Colebrook	14.00	12.75	3.00	3.86	10.00	9.99
National Distillers Products Corporation New York City, N. Y.							
Nadrisol Brand Corn Distillers Dried Solubles	Milford	25.00	32.97	5.00	12.18	4.00	3.99
Produlac Brand Dried Corn Distillers Grains with Solubles	Potter Place	25.00	26.97	8.00	8.21	9.00	8.99
Nebraska Farm Products, Inc. Cozad, Nebraska							
Emerald Brand 13% Suncured Alfalfa Meal	Lancaster	13.00	14.28	1.50	1.61	33.00	29.81
The Neumond Co. 300 Merchants Exc. St. Louis, Missouri							
Neumond's Dried Brewer's Grains	N. Haverhill	24.00	24.17	4.50	8.01	18.00	13.76
New Bedford Fish Products Corporation New Bedford, Massachusetts							
Cape Cod Brand Fish Meal	Manchester	64.00	68.01	5.00	10.02	2.00	2.40
Northeast Flour Mills, Inc. Northeast, Pennsylvania							
Northeast Wheat Bran	N. Haverhill	15.50	17.51	4.00	4.71	9.00	9.65
Ogden Grain Co. Utica, New York							
Ogden "Biddy" Mash	Goffstown	20.00	22.28	4.00	3.93	9.00	7.46
Ogden Complete Pellets	Goffstown	16.00	16.68	4.00	3.80	10.00	7.81
Ogden Complete Starter Grower Layer Breeder	Goffstown	16.00	16.64	4.00	3.68	10.00	7.56

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Ogden Grain Co. (Continued)							
Ogden 16% Dairy Feed	Goffstown	16.00	16.24	4.00	4.03	9.00	8.65
Ogden Horse Feed	Goffstown	10.00	10.77	3.00	3.85	9.00	6.34
Ogden 22% Pellets	Goffstown	22.00	22.94	4.00	4.06	9.00	7.34
Ogden Pig Feed	Goffstown	10.00	13.53	3.50	4.41	9.00	8.67
Ogden Rabbit Pellets	Goffstown	16.50	16.72	3.00	3.70	13.00	11.53
Oswego Soy Products Oswego, New York							
Soybean Oil Meal Toasted Extracted	Exeter	44.00	43.69	0.50	3.82	7.00	6.57
Soybean Oil Meal Toasted Extracted	Suncook	44.00	43.32	0.50	2.53	7.00	5.18
The Park & Pollard Co. Buffalo, New York							
Corn and Oats Half and Half	Colebrook	10.00	9.46	3.00	3.36	8.00	5.70
Lay or Bust All Mash Grower	Salem Depot	14.50	15.32	2.50	4.16	7.00	4.89
Lay or Bust All Mash Layer	Salem Depot	15.00	15.63	2.50	4.09	7.00	4.90
Lay or Bust Breeder Mash	Hillsborough	20.00	20.44	2.50	3.20	7.50	5.40
Lay or Bust Broiler Mash	Berlin	20.00	21.14	2.50	3.40	5.50	4.14
Lay or Bust Chick Starter	Salem Depot	20.00	21.64	2.50	3.25	6.00	3.94
Lay or Bust Egg Mash	Colebrook	20.00	20.27	2.50	3.21	7.50	5.84
Lay or Bust Growing Feed	Salem Depot	18.00	21.50	2.50	3.68	7.50	5.63
Lay or Bust Growing Pellets	Berlin	18.00	16.90	2.50	3.84	7.50	5.52
Lay or Bust Hi-Valu Scratch Pellets	Berlin	12.00	12.65	2.50	3.50	6.50	6.78
Lay or Bust Laying Pellets	Berlin	20.00	20.27	2.50	3.48	7.50	5.45
Lay or Bust Poultry Fitting Ration	N. Haverhill	14.00	13.51	2.50	3.50	9.50	7.05
Lay or Bust Turkey Grower	Berlin	20.00	19.53	2.50	3.35	7.00	5.06
Milk-Maid Bulky Sweet Dairy	Berlin	12.00	12.56	2.50	3.19	14.00	10.13
Milk-Maid Calf Meal	N. Haverhill	20.00	25.61	3.50	4.10	7.00	6.05
Milk-Maid Calf Starter Mix	Colebrook	19.00	19.26	3.50	3.13	8.00	6.41
Milk-Maid Calf Starter Pellets	Berlin	22.00	24.34	3.50	3.66	7.00	6.51
Milk-Maid Dairy Molasses Mix	Lancaster	16.00	18.52	2.50	2.53	12.00	10.29
Milk-Maid 32% Dairy Mix	Lancaster	32.00	32.40	2.50	4.79	9.00	6.43
Milk-Maid 16% Dairy Ration	Colebrook	16.00	17.04	3.50	2.86	10.00	6.14
Milk-Maid 20% Dairy Ration	Salem Depot	20.00	21.71	3.50	4.60	10.00	7.22
Milk-Maid 24% Dairy Ration	N. Haverhill	24.00	24.65	3.50	5.30	10.00	7.26
Milk-Maid Fitting Ration	Salem Depot	14.00	12.81	3.00	3.27	9.00	6.07
Milk-Maid Goat Feed	Lancaster	16.00	17.07	3.00	4.17	9.00	7.48
Milk-Maid Red Ribbon 18% Dairy Ration	Colebrook	18.00	19.00	3.50	4.44	12.00	7.37
Milk-Maid Red Ribbon 20% Dairy Ration	Berlin	20.00	21.62	3.50	3.92	12.00	8.53
Milk-Maid Red Ribbon Fitting Ration	Berlin	14.00	16.81	3.00	3.62	9.00	6.63
Milk-Maid Test Cow Ration	Salem Depot	18.00	19.13	4.00	4.08	9.00	6.78
Milk-Maid Yankee Horse Feed	Colebrook	10.00	11.91	2.50	3.94	10.00	6.20
Munchy Dog Food	N. Haverhill	26.00	30.47	4.00	6.49	4.50	2.53
Park & Pollard Go-Tu-It Pig and Hog Ration	Berlin	15.00	17.16	2.50	3.71	8.00	6.10
Park & Pollard Rabbit Pellets	Berlin	14.00	15.15	2.50	3.91	12.00	7.79
Park & Pollard Stock Feed	Hillsborough	9.00	9.02	2.00	4.42	12.00	10.11
Red Ribbon 16% Dairy Ration	Salem Depot	16.00	16.46	3.50	4.16	12.00	7.91
Special Milk-Maid 16% Dairy Ration	Salem Depot	16.00	17.21	3.50	3.92	10.00	7.23

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
The Park & Pollard Co., Inc. (Continued)							
Special Milk-Maid 20% Ration	Berlin	20.00	21.95	3.50	4.66	10.00	7.65
Sulfaquinoxaline Mixture in Lay or Bust All Mash Grower	Salem Depot	14.50	15.94	2.50	3.61	7.00	5.35
Sulfaquinoxaline in Lay or Bust Chick Starter	N. Haverhill	20.00	21.45	2.50	4.02	6.00	4.40
Sulfaquinoxaline in Lay or Bust Growing Feed	Colebrook	18.00	19.96	2.50	3.17	7.50	6.02
Sulfaquinoxaline Mixture in Hi-Power Broiler Ration	Hillsborough	20.00	22.02	3.00	3.40	4.00	3.72
Sulfaquinoxaline Mixture in Lay or Bust Turkey Starter	Hillsborough	28.00	29.15	2.50	3.38	6.50	4.39
Parrish & Heimbecker Ltd. Toronto, Canada							
Parrheim Pure Wheat Bran	Concord	15.00	16.24	3.50	5.27	11.50	9.78
Pasco Packing Co. Dade City, Florida							
Sugar-Sweet Citrus Pulp	Derry	6.00	5.73	2.50	3.03	13.50	10.87
Patent Cereals Co. Geneva, New York							
Hominy Feed	N. Haverhill	9.00	9.90	5.00	6.96	5.00	4.30
Penick & Ford, Ltd., Inc. Cedar Rapids, Iowa							
Douglas Corn Gluten Feed	Suncook	23.00	25.13	1.30	1.31	8.50	7.01
Pierce Grain Corp. Buffalo, N. Y.							
20 Reliance Dairy Ration	Colebrook	20.00	21.16	4.00	4.32	9.00	7.31
Dean & Lee for Pilgrim Feed Co. Providence, R. I.							
Pilgrim Supreme Broiler Ration	New Boston	22.00	21.46	4.00	4.14	3.50	3.78
Pillsbury Mills, Inc. Minneapolis, Minnesota							
Pillsbury's Hard Wheat A Middlings with Ground Wheat Screenings	Berlin	16.00	17.04	4.00	4.97	6.00	4.70
Pillsbury's Hard Wheat Bran with Ground Wheat Screenings	Berlin	14.00	15.68	4.00	4.92	12.00	10.50
Pillsbury's Wheat Bran with Ground Wheat Screenings	Conway	14.50	16.58	3.50	5.18	11.00	9.32
Pillsbury's XX Daisy	Berlin	16.00	18.56	4.00	5.52	4.00	3.44
Pittsburg Plate Glass Co. Red Wing, Minnesota							
Red Wing 34% Protein Linseed Meal	Exeter	34.00	35.11	3.50	4.04	9.00	8.51
R. C. Pratt 18 Toronto St. Toronto, Canada							
Ruler Brand Pure Wheat Bran	Suncook	15.00	13.72	3.50	4.29	11.50	9.02
Ruler Brand Pure Wheat Shorts	Concord	15.00	16.20	3.50	5.37	10.50	7.09

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
The George Pritchard Co. Dover, New Hampshire							
Pritchard Complete Grower-Layer Mash	Dover	16.00	16.55	4.00	4.38	7.00	5.71
Pritchard 16% Dairy Ration	Dover	16.00	16.42	4.00	4.27	8.00	4.18
Pritchard 20% Dairy Ration	Dover	20.00	20.22	4.00	4.07	8.00	6.96
Pritchard 14% Fitting Ration	Dover	14.00	13.80	4.00	3.55	8.00	6.74
Quaker Oats Co. Peterborough, Canada							
Bell Cow Wheat Shorts	Suncook	16.00	18.83	4.00	5.50	8.00	6.84
Quaker 20% Protein Dairy Ration	Lebanon	20.00	20.40	3.00	3.82	12.00	9.29
Quaker Sugared Schumacker Feed (Coarse)	Lebanon	12.00	14.28	2.50	3.54	12.00	7.48
Vim Oat Mill Feed	Manchester	3.50	2.19	1.00	0.73	34.00	34.42
Quebec Sugar Refinery Co. St. Hilaire, P. Q., Canada							
Dried Beed Pulp	Keene	7.00	8.23	0.30	0.76	22.50	19.54
Ralston Purina Co. St. Louis, Missouri							
Purina B & M Cow Chow	Nashua	16.00	16.33	3.50	5.31	10.00	7.30
Purina Breeder Layena (for heavy Breeds)	Manchester	16.50	16.90	3.00	3.88	8.00	5.46
Purina Broiler Checkers Supplement	Nashua	18.00	18.65	3.00	3.49	6.00	3.70
Purina Broiler Chow	Manchester	18.00	20.35	3.00	4.13	7.00	5.16
Purina Broiler Chow (Special)	Nashua	22.00	22.24	3.50	3.52	4.50	4.31
Purina Bulky Las	Nashua	10.00	11.48	2.00	2.90	15.00	11.48
Purina Chick Growena (Checker-Etts)	Manchester	17.00	17.28	3.00	3.83	7.00	4.89
Purina Chick Startena	Keene	20.00	20.53	3.00	3.41	5.00	3.91
Purina Commercial Lay Chow	Nashua	20.00	20.40	3.00	3.60	8.00	5.87
Purina Commercial Layena	Manchester	15.50	15.54	3.00	3.76	8.00	5.33
Purina Cow Chow	Colebrook	18.00	18.09	3.00	4.32	12.00	8.33
Purina D & F Chow	Manchester	12.50	12.25	3.00	3.48	12.00	8.68
Purina Eastern Cow Chow	Manchester	20.00	19.65	3.00	4.11	12.00	9.62
Purina Flock Chow	Nashua	17.00	17.51	3.00	3.66	8.00	6.38
Purina Goat Chow	Nashua	16.00	16.60	3.00	4.20	10.00	7.80
Purina Hog Fatena	Nashua	14.00	15.01	3.00	4.08	8.00	5.97
Purina Layena (Complete Ration)	Manchester	15.50	15.72	3.00	3.97	6.00	4.61
Purina Milk Chow	Colebrook	16.00	17.82	3.50	5.04	12.00	9.25
Purina Mink Chow	Manchester	11.00	14.19	2.50	3.38	6.00	3.63
Purina Omolene	Nashua	10.00	10.01	3.00	3.71	11.00	7.12
Purina Rabbit Chow Checkers (Complete Ration)	Manchester	20.00	20.79	2.00	3.55	18.00	13.19
Purina Sulfaquinoxaline Mixture for Broilers in Purina Broiler Chow (Special)	Manchester	22.00	23.49	3.50	4.23	4.50	4.01
Purina Turkey Fatena (Complete Finisher Ration)	Manchester	15.50	15.72	3.00	4.10	8.00	4.98
Purina Turkey Growena (Checker-Etts)	Manchester	20.00	20.44	3.00	3.56	7.00	4.56
John Readon & Sons Cambridge, Mass.							
Register Brand 45% Protein Meat and Bone Scrap	Exeter	45.00	44.70	8.00	12.31	....	....

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Red Wing Milling Co. **Red Wing, Minnesota**							
Red Wing Special Standard Pure Wheat Middlings	Lancaster	15.00	18.56	4.50	6.22	9.50	7.46
Russell Miller Milling Co. **Minneapolis, Minnesota**							
Hard Wheat Occident Bran	Colebrook	14.00	18.39	4.00	5.55	11.50	9.43
Schenley Distiller's Inc. **New York, New York**							
Schenley Corn Distillers Dried Grains with Solubles	Colebrook	24.00	24.76	5.00	9.85	13.00	9.78
Schwab Bros., Mills, Inc. **New Bavaria, Ohio**							
Dehydrated Bavaria Brand Alfalfa Meal	Exeter	17.00	15.12	1.50	2.36	27.00	30.41
Joseph E. Seagrams & Sons Inc. **Louisville, Kentucky**							
Seagram's Corn Distillers Dried Grains	Exeter	21.00	20.05	8.00	12.49	15.00	11.76
Searle Grain Co. Ltd. **Fort William, Ontario, Canada**							
Ground Grain Screenings	Westmoreland	13.00	14.84	5.00	8.64	16.00	10.99
Sherwin-Williams Co. **Cleveland, Ohio**							
Sherwin-Williams 34% Pure Linseed Oil Meal	Colebrook	34.00	34.32	3.50	5.53	9.00	8.12
The W. J. Small Co., Inc. **Kansas City, Missouri**							
Small's 17% Dehydrated Alfalfa Meal	Lancaster	17.00	17.60	1.75	2.55	27.00	24.59
Allen V. Smith, Inc. **Marcellus Falls, N. Y.**							
Smith's Barley Feed Red Tag Brand	Greenfield	13.00	10.72	2.00	2.71	14.00	10.00
South End Hay & Grain **Manchester, New Hampshire**							
18% Dairy Feed	Manchester	18.00	18.56	4.00	4.92	10.00	7.24
Feedboard Breeder Mash	Manchester	20.00	22.94	3.00	5.80	7.00	6.31
Feedboard Growing Mash	Manchester	18.00	19.04	3.50	5.71	8.00	6.99
Feedboard Super-Starter	Manchester	20.00	20.88	3.50	4.60	4.50	3.30
Feedboard Super-Starter	Manchester	20.00	20.71	3.50	3.72	4.50	3.26
F. B. Spaulding Co. **Lancaster, N. H.**							
Miracle Complete Egg Mash	Lancaster	16.00	16.60	3.00	4.10	9.00	6.82
Provender (Ground Corn and Oats)	Lancaster	10.00	10.50	3.50	4.20	9.00	4.62
Spaulding's 20% Dairy Ration	Lancaster	20.00	20.10	3.50	3.17	9.00	5.83
Spaulding's Fitting Ration	Lancaster	12.00	13.32	3.50	3.46	9.00	8.02

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff: Protein Guaranteed*	Protein Found	Fat Guaranteed*	Fat Found	Crude Fiber Guaranteed*	Crude Fiber Found
Spaulding & Sons Milford, N. H.							
Spaulding's All-Mash Grower	Milford	16.00	16.98	3.50	4.03	7.50	7.27
Spaulding's All-Mash Grower (Pelleted)	Milford	16.00	16.59	3.50	4.93	7.50	6.61
Spaulding's All-Mash Layer	Milford	16.00	16.90	3.50	4.06	7.50	6.21
Spaulding's All-Mash Layer (Pelleted)	Milford	16.00	16.94	3.50	4.74	7.50	6.71
Spaulding's 20% Layer	Milford	20.00	20.40	3.50	4.24	7.50	6.57
Spaulding's 20% Layer (Pelleted)	Milford	20.00	20.01	3.50	4.58	7.50	6.38
Spaulding's 20% Layer and Breeder	Milford	20.00	20.70	3.50	4.49	7.50	7.13
Spaulding's 20% Layer and Breeder (Pelleted)	Milford	20.00	19.09	3.50	5.02	7.50	7.25
Spencer Kellogg & Co., Inc. Buffalo, New York							
Spencer Kellogg's 32% Protein Old Process Linseed Oil Meal	Manchester	32.00	33.01	3.50	3.99	9.00	8.92
Spencer Kellogg's 34% Old Process Linseed Oil Meal	Colebrook	34.00	33.53	3.50	4.11	9.00	8.80
Spencer Kellogg's Solvent Toasted Extracted Soybean Oil Meal	Milford	44.00	45.92	0.50	0.70	7.00	5.56
A. E. Staley & Co. Decatur, Illinois							
50% Hi-Pro-Con	Milford	50.00	50.17	0.50	0.62	3.00	2.47
Staley's Corn Gluten Feed	Keene	23.00	26.09	1.50	1.78	8.00	6.92
Staley's Corn Gluten Feed	Keene	23.00	24.26	1.50	1.80	8.00	5.82
Staley's Soybean Oil Meal	Keene	41.00	42.12	3.50	3.51	7.00	6.99
Stratton & Company Penacook, New Hampshire							
Stratton's Stock Feed	Salem Depot	7.50	7.13	2.75	4.26	16.00	14.90
Stratton & Co.'s Wheat Mixed Feed	Potter Place	13.50	13.84	4.00	4.17	8.00	7.47
Stratton & Co.'s Wheat Standard Middlings	Salem Depot	14.00	14.45	4.00	3.63	8.00	2.75
Stratton & Co.'s Wheat White Middlings	Potter Place	14.00	15.98	4.00	4.16	5.00	2.82
Stratton & Co. Wheat White Middling	Salem Depot	14.00	14.23	4.00	3.14	5.00	1.98
U. S. Alfalfa Products Co. P. O. Box "A" Verdon, Nebraska							
Past-UR-Like Alfalfa Pellets	N. Haverhill	15.00	13.19	1.50	1.61	33.00	32.52
Union Starch & Refining Co. Columbus, Indiana							
Union Corn Oil Meal	Manchester	20.00	22.15	6.00	7.29	10.00	9.72
Unity Feeds Inc. Manchester, N. H.							
Unity Feeds Breeder Mash	Manchester	20.00	20.44	3.00	4.11	6.00	5.40
Unity Feeds Chick Starter	Manchester	20.00	21.10	3.00	4.37	4.50	4.49
Unity Feeds 14% Dairy Fitting Ration	Manchester	14.00	15.15	3.50	3.76	8.00	7.44
Unity Feeds 16% Dairy Ration	Manchester	16.00	18.70	4.00	5.67	10.00	7.44

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Unity Feeds Inc. (Continued)							
Unity Feeds Growing Mash	Manchester	18.00	18.39	3.00	3.66	7.00	6.62
Unity Feeds Laying Mash	Manchester	20.00	20.71	3.00	4.19	7.00	6.43
Unity Feeds Nitrophenide Mixture in Unity Advance Ration	Manchester	20.00	20.10	4.00	4.54	4.50	3.81
Unity Feeds Super Ration	Manchester	20.00	21.18	4.00	4.66	3.50	3.49
Unity Grist Mill 20% Dairy Ration	Manchester	20.00	19.01	3.50	4.52	10.00	5.79
Unity Grist Mill 4-Way Mash	Manchester	15.00	15.06	3.50	4.08	7.00	5.37
H. K. Webster Co. Lawrence, Massachusetts							
Blue Seal All Mash Breeder's Ration	Exeter	15.00	15.54	3.50	5.33	6.50	5.60
Blue Seal All Mash Egg Ration	Concord	15.00	16.20	3.50	4.38	6.50	5.07
Blue Seal All Mash Growing Ration	Concord	15.00	14.14	3.50	4.42	6.50	5.22
Blue Seal Breeder Mash	Concord	20.00	21.62	3.50	5.25	7.00	5.47
Blue Seal Corn-Oats Provender	Colebrook	9.50	9.63	4.00	3.94	7.00	5.47
Blue Seal "16" Dairy Ration (Coarse)	Colebrook	16.00	16.68	3.50	4.27	9.00	7.61
Blue Seal Economizer "16" Dairy Ration	Colebrook	16.00	17.60	3.00	3.34	15.00	14.30
Blue Seal Egg Mash (Pellets)	Laconia	20.00	21.45	3.50	5.04	7.00	5.93
Blue Seal Egg Mash (Pellets)	Exeter	20.00	20.32	3.50	4.64	7.00	5.85
Blue Seal Fattening Pellets	Exeter	14.00	14.10	3.50	4.52	6.50	5.62
Blue Seal Fine "16" Dairy Ration	Exeter	16.00	16.64	3.50	4.32	9.00	7.24
Blue Seal Fine "20" Dairy Ration	Exeter	20.00	22.06	3.50	4.24	9.00	7.38
Blue Seal Fitting Ration with Vitamin D. Yeast	Concord	14.00	14.14	3.50	4.02	9.00	7.41
Blue Seal Growing Mash	Concord	18.00	18.39	3.50	4.58	7.00	6.20
Blue Seal Pig Feed with Vitamin D Yeast	Concord	15.00	18.32	3.00	4.93	6.00	5.10
Blue Seal Stock Feed	Rochester	8.50	10.33	3.00	3.78	17.00	11.88
Blue Seal Super Mash	Exeter	20.00	21.19	4.00	4.72	4.00	3.42
Blue Seal Super Starter and Broiler	Laconia	20.00	22.07	4.00	4.99	4.00	3.38
Sulfaquinoxaline Mixture in Blue Seal Starter and Broiler	Concord	20.00	23.07	4.00	4.38	4.00	3.63
Whitmoyer Laboratories, Inc. Myerstown, Pennsylvania							
Clo-Meal	Potter Place	38.00	45.09	10.00	22.73	3.75	1.67
Gro-Tein	Keene	40.00	45.05	6.00	12.18	5.50	1.55

* Protein and fat not less than, crude fiber not more than.

1954